

CLAIMS

1. A sensor holder for a sensor detecting a component in a gas flow, characterised in that the holder comprises a recess for a sensor and a body, the body being provided with channels for the gas flow so that the flowing gas is stabilised with regard to its temperature by the body, the resulting temperature of the gas being the same as that of the body and the sensor before reaching the sensor.
2. A sensor holder according to claim 1, wherein the body at least partially encloses the sensor.
3. A sensor holder according to claim 1, wherein the body is made of metal or a composite material showing thermal and electrical conductivity.
4. A sensor holder according to claim 1, wherein the body is hollow and comprises gas channels between two end plates in one end of the body and at least one inlet hole in the inner end plate for the gas leading into the inner space of the body where the sensor is positioned in the use mode.
5. A sensor holder according to claim 4, wherein the body is mainly cylindrical.
6. A sensor holder according to claim 5, wherein the channels between the end plates are formed so that the incoming gas is spread around the periphery and then into the centre via channels having the form of segments of a circle, where the inlet hole is positioned.

7. A sensor holder according to claim 5, wherein the channels between the end plates are formed so that the incoming gas is spread around the periphery and then into the inlet hole in the vicinity of the centre via channels having the form of a coil, a maze or the like.
8. A sensor holder according to claim 1, wherein a temperature sensor is arranged in the body.
9. A sensor holder according to claim 1, wherein the sensor is electrically shielded by the body and a lid, both being electrically conductive.
10. A sensor holder according to claim 9, wherein an electrically conductive gasket is provided between the body and the lid in its closed position.
11. A sensor holder according to claim 1, wherein the sensor is locked into position in its use mode by locking means.